

## EXHIBITIONS AND NOTICES.

March 21st, 1922.

Dr. A. SMITH WOODWARD, F.R.S., Vice-President,  
in the Chair.

The SECRETARY read the following Report on the Additions to the Society's Menagerie during the month of February, 1922 :—

The registered additions to the Society's Menagerie during the month of February were 126 in number. Of these 39 were acquired by presentation, 81 were deposited, 5 were purchased, and 1 born in the Menagerie.

The following may be specially mentioned :—

2 Elephants (*Elephas maximus*), from India, presented by H.H. The Gaekwar of Baroda on February 18th.

1 Lioness (*Felis leo*), bred in India, presented by H.H. The Maharajah of Mayurbhanj on February 18th.

1 Allamand's Grison (*Grison allamandi*), from Pernambuco, presented by Lt.-Commander Rutherford Collins, R.N.R.

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April 4th, 1922.

Prof. E. W. MACBRIDE, F.R.S., Vice-President,  
in the Chair.

Mr. C. TATE REGAN, F.R.S., F.Z.S., exhibited, and made remarks upon, a series of lantern-slides illustrating specimens of various blind fresh-water Fishes from caves.

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Mr. R. H. BURNE, M.A., F.Z.S., exhibited, and made remarks upon, a series of specimens demonstrating the recessus orbitalis in Flat Fishes.

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Dr. L. HOGBEN, M.A., F.Z.S., exhibited some small examples of metamorphosed Mexican Salamanders (*Amblystoma tigrinum*), and remarked as follows :—

“ Significant advances have been made during the past seven or eight years in the study of the part played by ductless glands in Amphibian metamorphosis. That the thyroid secretes an iodine compound which stimulates the assumption of adult characters, and that the removal of this gland results in a

permanent retention of the larval organisation may be regarded as definitely established by the work of Gudernatsch, Bennet Allen, Hoskins, Swingle, Morse, Uhlenhuth, and others. There are ample indications that the thyroid gland is not alone in influencing the developmental processes of Batrachians. Several recent workers, notably Allen, have demonstrated the failure of Auran tadpoles to undergo metamorphosis after the ablation of the pituitary (anterior lobe) rudiment. But our knowledge of the function of this organ is very slight.

"A short while ago the author, in collaboration with Mr. Julian Huxley, independently confirmed Laufberger and Jensen's claim to have induced sexually mature larvæ of the neotenus Mexican Salamander to assume the adult form by treatment with a diet of mammalian thyroid. It was not possible after many attempts to obtain this result with pituitary (anterior lobe) gland substance administered *per os*. Recently it has been found possible to induce year-old Axolotls in Prof. MacBride's laboratory at the Imperial College of Science to transform after tri-weekly intravenous injections of anterior lobe extracts. The injections of .3 cc. Ringer extract of equivalent to 2 grains fresh gland (ox) were made *via* the anterior abdominal vein. The animals were fed on raw beef tri-weekly, and kept in deep water till the completion of metamorphosis at the conclusion of one month from the beginning of the treatment. The time required by this method is thus the same as that in the case of thyroid dieting—conspicuously less than with the shallow-water treatment of Mlle. de Chauvin and E. G. Boulenger."

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April 25th, 1922.

Sir SIDNEY F. HARMER, K.B.E., F.R.S., Vice-President,  
in the Chair.

The SECRETARY read the following Report on the Additions to the Society's Menagerie during the month of March, 1922:—

The registered additions to the Society's Menagerie during the month of March were 157 in number. Of these 61 were acquired by presentation, 20 were deposited, 70 were purchased, 2 were received in exchange, and 4 were born in the Menagerie.

The following may be specially mentioned:—

3 Alpine Marmots (*Marmota marmota*), from Argentières, Haute Savoie, presented by Major J. R. Peploe on March 27th.

3 Canadian Tree-Porcupines (*Erithizon dorsatus*), from N. America, received in exchange on March 22nd.

2 Reindeer (*Rangifer tarandus*), from Norway, purchased on March 21st.

1 Black-gloved Wallaby (*Macropus irma*), from W. Australia, presented by Capt. F. J. Ogilvie on March 31st.

1 Nepal Scops Owl (*Scops bakkamena lettia*) and 1 Indian Kestrel (*Cerchneis tinnunculus saturatus*), from Darjeeling, new to the Collection, presented by Mr. H. Stevens on March 11th.

1 Bonelli's Eagle (*Entomaëtus fasciatus*) and 1 Great Eagle-Owl (*Bubo bubo*), presented by the Hon. Mrs. Willoughby Verner on March 31st.

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The SECRETARY exhibited, and made remarks upon, some dressed skins of a Tree-Hyrax (*Procavia valida* ?) from Tanganyika Territory.

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Prof. P. T. FLYNN exhibited, and made remarks upon, a cast of the skull of a Squalodont Whale from the Tertiary (Miocene) Strata, Table Cape, Tasmania.

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The SECRETARY communicated on behalf of Mr. ARTHUR LOVERIDGE, C.M.Z.S., an account of Mr. Loveridge's experiences while watching "Lions at their Kill."